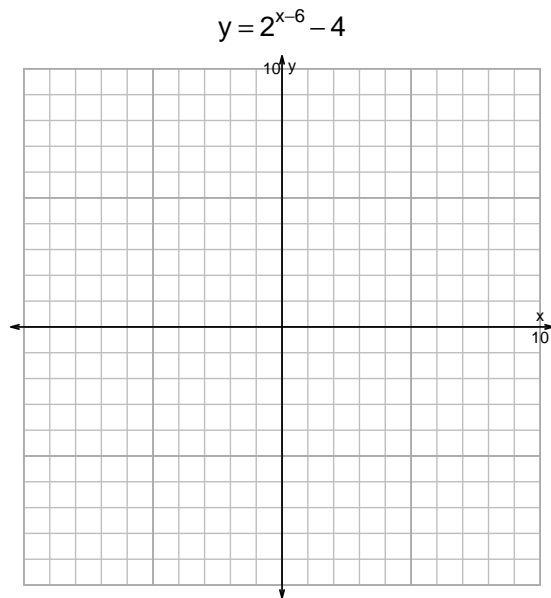
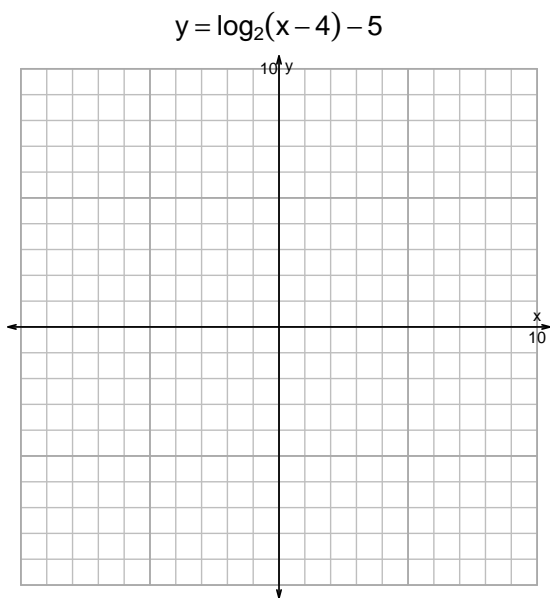


Name: \_\_\_\_\_

Date: \_\_\_\_\_

S18QUIZ: EXP LOG (PRACTICE v146)

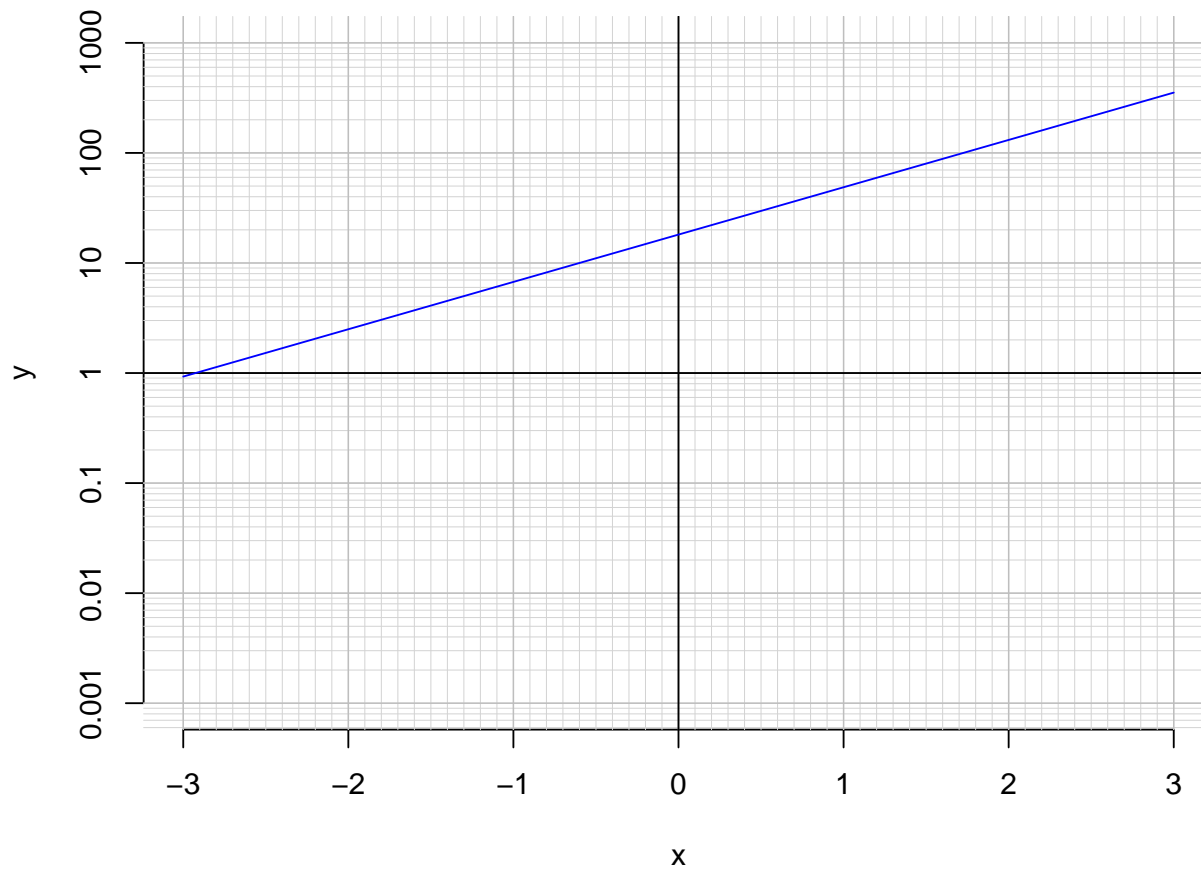
1. Graph  $y = \log_2(x - 4) - 5$  and  $y = 2^{x-6} - 4$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-17 = \left(\frac{-3}{7}\right) \cdot 10^{4t/5}$$

3. An exponential function  $f(x) = 18.1 \cdot e^{0.99x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(-1.3)$ .

- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

- c. Using the plot above, evaluate  $f^{-1}(20)$ .